

ABSTRACT

A laser device employs a laser slab having an ionic layer and a nonionic layer, joined through an optical-quality interface. The laser slab has a trapezoidal cross-section in a direction perpendicular to the optical-quality interface. Thermal conductivity away from the ionic layer is enhanced through the thinness of the ionic layer and through the use of a heatsink attached to the ionic layer. Optical power input through the nonionic layer and into the ionic layer is further increased through the use of the trapezoidal cross section.

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